

SS5817D THRU SS5819D

Surface Mount Schottky Barrier Rectifiers

Reverse Voltage - 20 to 40 V

Forward Current - 1 A

Features

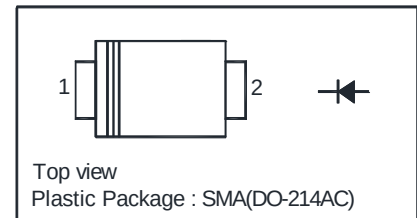
- Plastic package has Underwriters Laboratory Classification 94V-0
- Metal silicon junction, majority carrier conduction
- For surface mount applications
- Guard ring for overvoltage protection
- Low power loss, high efficiency
- High current capability, Low forward voltage drop
- High surge capability

Mechanical Data

- **Case:** SMA (DO-214AC) molded plastic case
- **Terminals:** Solder plate, solderable per MIL-STD -750, method 2026
- **Polarity:** Color band denotes cathode end
- **Mounting Position:** Any

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



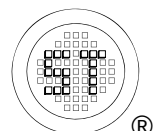
Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave 60Hz, resistive or inductive load, for capacitive load, derate by 20 %

Parameter	Symbols	SS5817D	SS5818D	SS5819D	Units
	Marking	SS5817	SS5818	SS5819	
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	30	40	V
Maximum RMS Voltage	V _{RMS}	14	21	28	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	V
Maximum Average Forward Rectified Current at T _L (see fig.1)	I _{F(AV)}	1			A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	30			A
Maximum Instantaneous Forward Voltage at 1 A	V _F	0.5	0.55		V
Maximum Instantaneous Reverse Current at T _a = 25°C at Rated DC Blocking Voltage at T _a =100°C	I _R	0.5 6			mA
Typical Junction Capacitance ¹⁾	C _j	110			pF
Typical Thermal Resistance ²⁾	R _{θJA}	88			°C/W
Operating Junction Temperature Range	T _j	- 65 to + 125			°C
Storage Temperature Range	T _{stg}	- 65 to + 150			°C

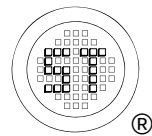
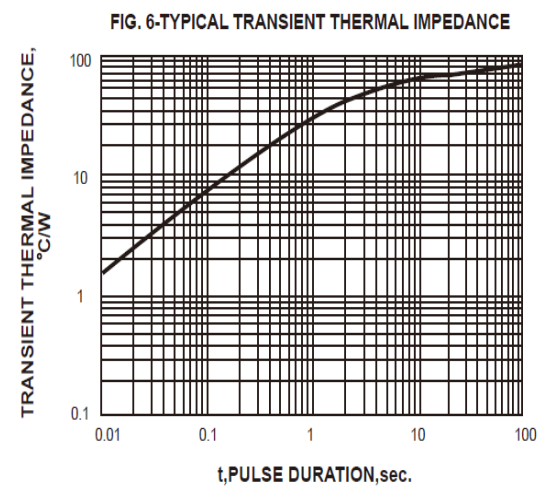
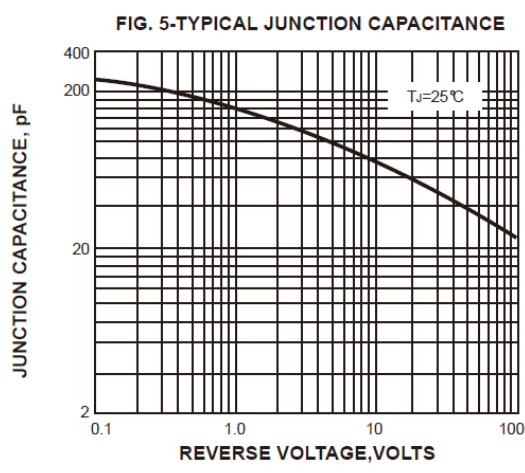
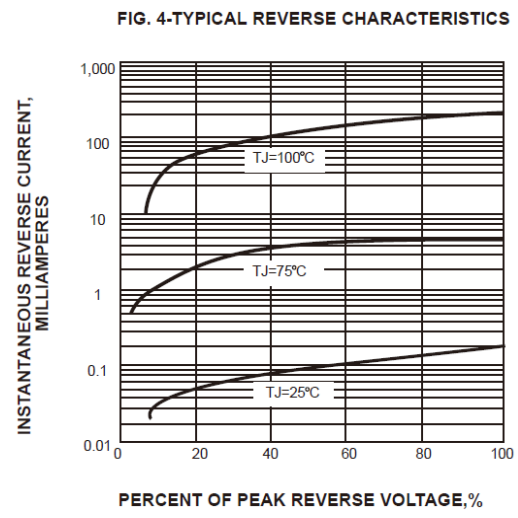
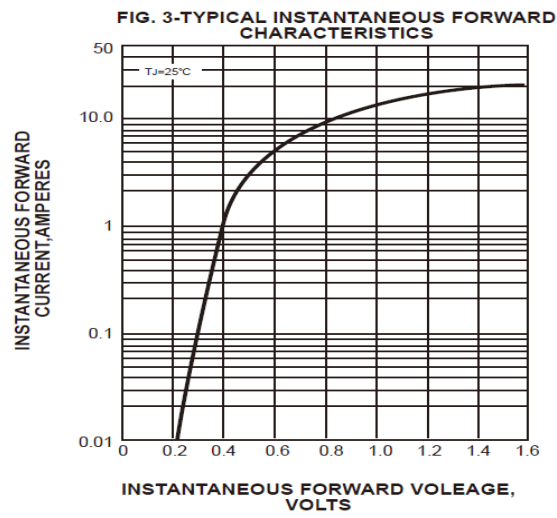
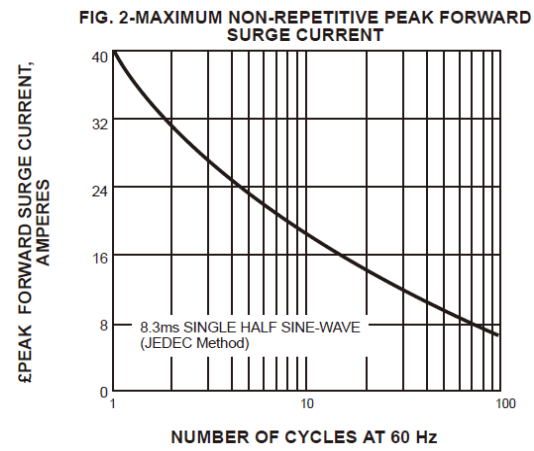
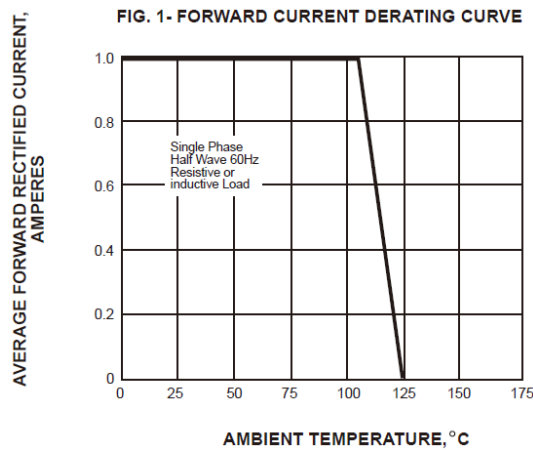
¹⁾ Measured at 1MHz and applied reverse voltage of 4.0 V D.C.

²⁾ P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas



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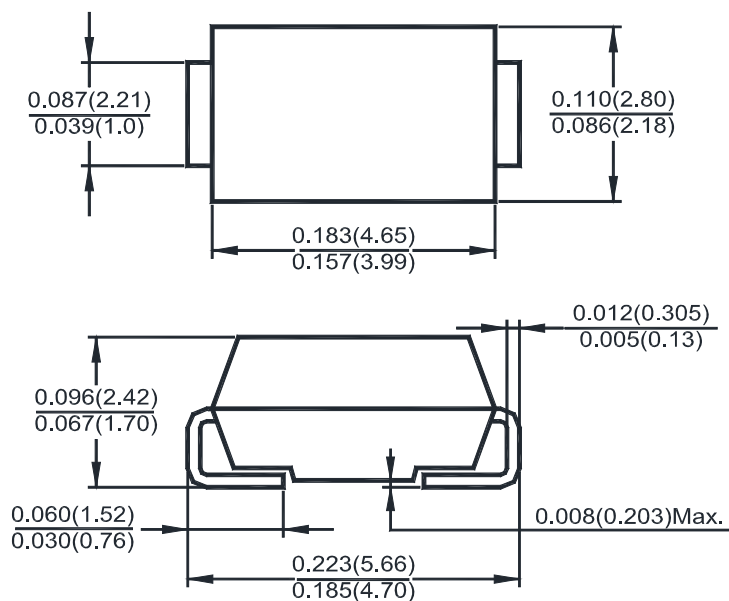
Electrical Characteristics Curves



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Package Outline Dimensions in inches (millimeters)

SMA(DO-214AC)



Marking information

" ***** " = Part No.

" III " = Cathode line

Font type: Arial

